# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**Issuing Date:** 06-May-2022 **Revision date** 06-May-2022 **Revision Number** 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Identifier** C-91918941-004_PGP_CLPR7_EUR_SAW
**Product Name** Dreft_Platinum_All In One (vaatwastabletten-lave vaisselle)
**Product Form** Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Restricted to professional users
**Uses advised against** No information available
**Main user category** SU 22 - Professional uses
**Product category** Auto Dish unit dose
**Use category** PC35 - Washing and cleaning products (including solvent based products)

### 1.3. Details of the supplier of the safety data sheet

| Manufacturer | Supplier |
|---|---|
| Procter & Gamble UK Brooklands PGP, Weybridge, Surrey, KT13 0XP, UK Tel: 01932 896000 Fax: 01932 896200 | Belgium P&G Mechelen (Malines), Hombeeksesteenweg 323, B - 2800 Mechelen, Antwerpen, Belgium Tel: 32-15-455611 Fax: 32-15-455615 |

For further information, please contact
**E-mail address** customerservice@pgprof.com

### 1.4. Emergency telephone number

Emergency Telephone (UK) Emergency Tel: 0800 328 8304 (IRL) Emergency Tel: 1800 509 497

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

| | |
|---|---|
| **Serious eye damage/eye irritation** | Category 1 - (H318) |

### 2.2. Label elements

**Signal word**
Danger

**Hazard statements**
H318 - Causes serious eye damage

**Precautionary Statements - EU (§28, 1272/2008)**
P102 - Keep out of reach of children
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
Drink small amount of water to dilute
P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes
P280 - Wear eye protection/ face protection
P310 - Immediately call a POISON CENTER or doctor

EUH208 - Contains Protease May produce an allergic reaction.

### 2.3. Other hazards

No information available.

**Endocrine Disruptor Information** There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name | CAS No | weight-% | REACH registration number | EC No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|---|---|---|---|---|---|---|---|
| Sodium Carbonate | 497-19-8 | 20 - 30 | 01-2119485498-19 | 207-838-8 | Eye Irrit. 2(H319) | - | - | - |
| Sodium Carbonate Peroxide | 15630-89-4 | 10 - 20 | 01-2119457268-30 | 239-707-6 | Ox. Sol. 3(H272) Acute Tox. 4 (Oral)(H302) Eye Dam. 1(H318) | Eye Dam. 1 :: 25%<=C<100% Eye Irrit. 2 :: 10%<=C<25% | - | - |
| Trideceth-n | 69011-36-5 | 5 - 10 | No data available | - | Acute Tox. 4 (Oral)(H302) Eye Dam. 1(H318) | - | - | - |
| 2-Propyl-heptanol, ethoxylated, propoxylated | 166736-08-9 | 1 - 5 | No data available | 605-450-7 | Acute Tox. 4 (Oral)(H302) Skin Irrit. 2(H315) | - | - | - |
| Tetrasodium Etidronate | 3794-83-0 | 1 - 5 | 01-2119647955-23 | 223-267-7 | Acute Tox. 4 (Oral)(H302) Eye Irrit. 2(H319) | Eye Irrit. 2 :: 30%<=C<100% | - | - |
| Disodium Disilicate | 13870-28-5 | 1 - 5 | 01-2119485031-47 | 237-623-4 | Eye Dam. 1(H318) | - | - | - |
| Protease | 9014-01-1 | <1 | 01-2119480434-38 | 232-752-2 | Acute Tox. 4 (Oral)(H302) Skin Irrit. 2(H315) Eye Dam. 1(H318) Resp. Sens. 1(H334) STOT SE 3(H335) Aquatic Acute 1(H400) Aquatic Chronic | - | 1 | - |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 2(H411) | | | |
| zinc hydroxy carbonate | 51839-25-9 | <1 | 01-2119474697-20 | 257-467-0 | Aquatic Acute 1(H400) Aquatic Chronic 2(H411) | - | 1 | - |

**Full text of H- and EUH-phrases: see section 16**

*Acute Toxicity Estimate*
*No information available*

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**General advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (Call a physician if symptoms occur).

**Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Skin contact** IF ON SKIN: Wash with plenty of soap and water. Remove and isolate contaminated clothing and shoes. Immediately call a POISON CENTER or doctor/physician. Discontinue use of product.

**Ingestion** IF SWALLOWED:. Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately. Drink small amount of water to dilute.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** Coughing and/ or wheezing. Redness. Swelling of tissue. Itching. Sneezing. Dryness. Pain. Blurred vision. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Excessive secretion.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical. Alcohol resistant foam. Carbon dioxide (CO2).

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** None in particular.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**
**Environmental precautions** See Section 12 for additional Ecological Information.

**6.3. Methods and material for containment and cleaning up**
**Methods for containment** Scoop absorbed substance into closing containers.
**Methods for cleaning up** Small quantities of solid spill: wash down with water. Large Spills:. Scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation.
**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**
**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
**Advice on safe handling** Avoid contact with eyes. Use personal protection equipment. Do not eat, drink or smoke when using this product. Avoid generation of dust.
**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**7.2. Conditions for safe storage, including any incompatibilities**
**Storage Conditions** Keep/store only in original container. Keep tightly closed in a dry and cool place. Keep away from heat.

**7.3. Specific end use(s)**
**Specific use(s)**
Cleaning/washing agents and additives.
**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**
**Exposure Limits**

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|---|---|---|---|---|---|
| Protease | - | - | - | - | TWA: 0.00004 mg/m³ * Respiratory Sensitisation |
| **Chemical name** | **Cyprus** | **Czech Republic** | **Denmark** | **Estonia** | **Finland** |
| Sodium Carbonate | - | TWA: 5 mg/m³ Ceiling: 10 mg/m³ | - | - | - |
| Protease | - | - | Ceiling: 0.00006 mg/m³ | TWA: 1 glycine unit/m³ STEL: 3 glycine unit/m³ | - |
| **Chemical name** | **France** | **Germany** | **Germany MAK** | **Greece** | **Hungary** |
| Protease | - | - | respiratory sensitizer | - | - |
| zinc hydroxy carbonate | - | - | TWA: 0.1 mg/m³ TWA: 2 mg/m³ Peak: 0.4 mg/m³ Peak: 4 mg/m³ | - | - |
| **Chemical name** | **Ireland** | **Italy** | **Italy REL** | **Latvia** | **Lithuania** |

| | | | | | |
|---|---|---|---|---|---|
| Protease | TWA: 0.00006 mg/m³ STEL: 0.00006 mg/m³ Sensitizer | - | Ceiling: 0.00006 mg/m³ | - | - |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| Sodium Carbonate | - | TWA: 1 mg/m³ STEL: 3 mg/m³ | - | - | - |
| Protease | Ceiling: 0.00006 mg/m³ | - | - | - | STEL: 0.00006 mg/m³ sensitizer |
| zinc hydroxy carbonate | - | - | TWA: 0.1 mg/m³ TWA: 2 mg/m³ | - | - |
| Chemical name | Sweden | Switzerland | United Kingdom | Israel - Occupational Exposure Limits - TWAs | Turkey |
| Protease | NGV: 1 glycine unit/m³ Bindande KGV: 3 glycine unit/m³ Sensitizer | STEL: 0.00006 mg/m³ | TWA: 0.00004 mg/m³ STEL: 0.00012 mg/m³ Capable of causing occupational asthma | - | - |

**Biological occupational exposure limits**
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** Long term.

| Chemical name | Worker - dermal, long-term - systemic | Worker - inhalative, long-term - systemic | Worker - dermal, long-term - local | Worker - inhalative, long-term - local |
|---|---|---|---|---|
| Sodium Carbonate | - | - | - | 10 mg/m³ |
| Sodium Carbonate Peroxide | - | - | 12.8 mg/cm² | 5 mg/m³ |
| Tetrasodium Etidronate | 48 mg/kg bw/day | 16.9 mg/m³ | - | 10 mg/m³ |
| TAED | 20 mg/kg bw/d | 6.4 mg/m³ | - | - |
| Disodium Disilicate | 318 mg/kg bw/day | 11.21 mg/m³ | - | - |
| Protease | - | - | - | 0.00006 mg/m³ |
| Titanium Dioxide | - | - | - | 10 mg/m³ |
| zinc hydroxy carbonate | 83 mg/kg bw/day | 5 mg/m³ | - | - |

| Chemical name | Consumer - oral, long-term - local | Consumer - inhalative, long-term - local | Consumer - dermal, long-term - local |
|---|---|---|---|
| Sodium Carbonate Peroxide | - | - | 6.4 mg/cm² |
| Tetrasodium Etidronate | - | 10 mg/m³ | - |
| Protease | - | 0.000015 mg/m³ | - |

| Chemical name | Consumer - oral, long-term - systemic | Consumer - inhalative, long-term - systemic | Consumer - dermal, long-term - systemic |
|---|---|---|---|
| Tetrasodium Etidronate | 2.4 mg/kg bw/day | 4.2 mg/m³ | 24 mg/kg bw/day |
| TAED | 0.45 mg/kg bw/d | 75 mg/m³ | 10 mg/kg bw/d |
| Disodium Disilicate | 1.59 mg/kg bw/day | 2.39 mg/m³ | 159 mg/kg bw/day |
| Protease | 1.8 mg/kg bw/day | - | - |
| Titanium Dioxide | 700 mg/kg bw/d | - | - |
| zinc hydroxy carbonate | 0.83 mg/kg bw/day | 2.5 mg/m³ | 83 mg/kg bw/day |

**Derived No Effect Level (DNEL)** Short term.

| Chemical name | Worker - dermal, short-term - systemic | Worker - inhalative, short-term - systemic | Worker - dermal, short-term - local | Worker - inhalative, short-term - local |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Sodium Carbonate Peroxide | - | - | - | 12.8 mg/cm² |

| Chemical name | Consumer - inhalative, short-term - local | Consumer - dermal, short-term - local |
|---|---|---|
| Sodium Carbonate | 10 mg/m³ | - |
| Sodium Carbonate Peroxide | - | 6.4 mg/cm² |

| Chemical name | Consumer - oral, short-term - systemic | Consumer - inhalative, short-term - systemic | Consumer - dermal, short-term - systemic |
|---|---|---|---|
| Protease | 3.6 mg/kg bw/day | - | - |

**Predicted No Effect Concentration (PNEC)**

| Chemical name | Fresh Water | Marine water | Intermittent release |
|---|---|---|---|
| Sodium Carbonate Peroxide | 0.035 mg/L | 0.035 mg/L | 0.035 mg/L |
| Tetrasodium Etidronate | 0.096 mg/L | 0.01 mg/L | - |
| TAED | 10 mg/L | 0.5 mg/L | 10 mg/L |
| Disodium Disilicate | 7.5 mg/L | 7.5 mg/L | - |
| Protease | 0.0017 mg/L | 0.00017 mg/L | - |
| Titanium Dioxide | 0.184 mg/L | 0.018 mg/L | 0.193 mg/L |
| zinc hydroxy carbonate | 0.0206 mg/L | 0.0061 mg/L | - |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment plant | Soil | Air | Oral |
|---|---|---|---|---|---|---|
| Sodium Carbonate Peroxide | - | - | 16.24 mg/L | - | - | - |
| Tetrasodium Etidronate | 193 mg/kg sediment dw | 19.3 mg/kg sediment dw | 58 mg/L | 14 mg/kg soil dw | - | - |
| TAED | 2.5 mg/kg sediment dw | - | 10 mg/L | 5 mg/kg soil dw | - | - |
| Disodium Disilicate | 29.4 mg/kg sediment dw | 29.4 mg/kg sediment dw | 28 mg/L | 1.47 mg/kg soil dw | - | - |
| Protease | - | - | 65 mg/L | 0.568 mg/kg | - | - |
| Titanium Dioxide | 1000 mg/kg sediment dw | 100 mg/kg sediment dw | 100 mg/L | 100 mg/kg soil dw | - | - |
| zinc hydroxy carbonate | 117.8 mg/kg sediment dw | 56.5 mg/kg sediment dw | 0.1 mg/L | 35.6 mg/kg soil dw | - | - |

## 8.2. Exposure controls

**Personal Protective Equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**Environmental exposure controls** Prevent that the undiluted product reaches surface waters.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Solid |
| **Appearance** | dual-phase pouch: speckled powder with liquid top |
| **Color** | colored |
| **Odor** | Pleasant. |
| **Odor threshold** | No information available |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **Melting Point / Freezing Point** | No data available | Not available. This property is not relevant for the safety and classification of this product |
| **Initial boiling point and boiling range** | No data available | Not available. This property is not relevant for the safety and classification of this product |
| **Flammability** | | Not applicable. This property is not relevant for liquid product forms |
| **Flammability Limit in Air** | | Not available. This property is not relevant for the safety and classification of this product |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |
| **flash point** | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| **Autoignition temperature** | 75 °C | UN Test H.4 |
| **Decomposition temperature** | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| **pH** | 10 - 11.4 | Liquid 6 – 8.5 |
| **Dynamic Viscosity** | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| **Water solubility** | Soluble in water | |
| **Solubility(ies)** | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| **Partition coefficient** | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| **Vapor pressure** | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| **Relative density** | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| **Relative vapor density** | No data available | Not available. This property is not relevant for the safety and classification of this product |
| **Particle characteristics** | | Not available. This property is not relevant for the safety and classification of this product |
| **Particle Size** | No information available | |
| **Particle Size Distribution** | No information available | |

**9.2. Other information**

*9.2.1. Information with regard to physical hazard classes*
Not applicable

*9.2.2. Other safety characteristics*
No information available

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

**Reactivity** No information available.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**
**Sensitivity to mechanical impact** None.
**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**
**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**
**Conditions to avoid** None known based on information supplied.

**10.5. Incompatible materials**
**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**
**Hazardous Decomposition Products** None known based on information supplied.

## SECTION 11: Toxicological information

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Redness. Burning. May cause blindness.

**Numerical measures of toxicity**

**Acute toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**
**ATEmix (oral)** 3,317.60 mg/kg

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Sodium Carbonate | 2800 mg/kg bw | > 2000 mg/kg bw (EPA 16 CFR 1500.40) | - |
| Carbonic acid disodium salt, compd. with hydrogen peroxide | 893 mg/kg bw | > 2000 mg/kg bw | - |
| Phosphonic acid, P,P'-(1-hydroxyethylidene)bis-, sodium salt (1:4) | - | > 5000 mg/kg bw (OECD 402) | - |
| Silicic acid (H2Si2O5), sodium salt (1:2) | 2000- 3150 mg/kg bw (OECD 401) | - | - |
| Total Protein (Subtilisin) | 1800 mg/kg bw (OECD 401) | - | - |

| | | | |
|---|---|---|---|
| Carbonic acid, zinc salt, basic | > 2000 mg/kg bw (Read across data on Zinc; OECD 401; standard acute method; rat) | - | > 5.41 mg/L air (Read across data on Zinc; OECD 403; standard acute method; rat; 4 h) |

| Chemical name | Carcinogenicity | Species | Eye Damage | Species | Developmental toxicity | Species | Mutagenicity | Species |
|---|---|---|---|---|---|---|---|---|
| Sodium Carbonate | - | - | Y | - | - | - | - | - |
| Sodium Carbonate Peroxide | - | - | Y (OECD 405) | - | - | - | - | - |
| Disodium Disilicate | - | - | Y (OECD 405) | - | - | - | - | - |
| Protease | - | - | Y (OECD 405) | - | - | - | - | - |

| Chemical name | Reproductive toxicity | Species | Skin corrosion/irritation | Species | Sensitization | Species |
|---|---|---|---|---|---|---|
| Protease | - | - | Y (OECD 404) | - | Y | - |

| Chemical name | Skin sensitization | Species | STOT - single exposure | Target Organs | Species | STOT - repeated exposure | Target Organs | Species | Aspiration hazard |
|---|---|---|---|---|---|---|---|---|---|
| Protease | - | - | Y | - | - | - | - | - | - |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** Risk of serious damage to eyes.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**11.2. Information on other hazards**

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Not considered to be harmful to aquatic life. No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended.

**Unknown aquatic toxicity** Contains 0.98941 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Sodium Carbonate | - | 300 mg/L (Lepomis macrochirus; 96 h) | - | 200 - 227 mg/L (Ceriodaphnia sp.; 48 h)) |
| Carbonic acid disodium salt, compd. with hydrogen peroxide | - | 70.7 mg/L (Pimephales promelas; 48 h) | - | 4.9 mg/L (Daphnia pulex; 48 h) |
| Phosphonic acid, P,P'-(1-hydroxyethylidene)bis-, sodium salt (1:4) | - | 200 mg/L (OECD 204; Oncorhynchus mykiss; 72 h) | > 250 mg/L (Photobacterium phosphoreum; 0.5 h) | 527 mg/L (OECD 202; Daphnia magna; 48 h) |
| Silicic acid (H2Si2O5), sodium salt (1:2) | 44.1 mg/L (OECD 201; Desmodesmus subspicatus; 72 h) | > 500 mg/L (OECD 203; Danio rerio; 96 h) | 720 mg/L (OECD 209; activated sludge; 3 h) | 491 mg/L (OECD 202; Daphnia magna; 48 h) |
| Total Protein (Subtilisin) | 0.83 mg/L (OECD 201; Pseudokirchneriella subcapitata;72 h) | 8.2 mg/L (OECD 203; Oncorhynchus mykiss; 96 h) | - | 0.17 mg/L (OECD 202; Daphnia magna; 48 h) |
| Carbonic acid, zinc salt, basic | - | 0.112 mg/L (Read across data on Zinc chloride; guideline: ASTM, E-729-88; Thymallus arcticus; static; freshwater) | EC50: 5.2 mg/L (Read across data on Zinc sulphate; similar to OECD 209; activated sludge of a predominantly domestic sewage; static; freshwater; respiration rate) | 0.131 mg/L (Read across data on Zinc sulphate; similar to OECD 202; Daphnia magna; semi-static; freshwater; mortality; Clone A; low hardness) |

**Chronic Toxicity**

| Chemical name | Toxicity to algae (NOEC or ECx)* | Toxicity to fish (NOEC or ECx)* | Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)* | Toxicity to Microorganisms (NOEC or ECx)* | Toxicity to other organisms |
|---|---|---|---|---|---|
| Sodium Carbonate | 1 - 10 mg/L | - | - | - | - |
| Sodium Carbonate Peroxide | - | - | 2 mg/L (Daphnia pulex; 2 d) | - | - |
| TAED | 655 mg/L (OECD 201; Desmodesmus subspicatus; 3 d) | - | 500 mg/L (OECD 211; Daphnia magna; 21 d) | > 1000 mg/L (OECD 209; 0.125 d) | 500 mg/kg soil dw (OECD 222; species: eisenia fetida; artificial soil; 56 d) |
| Protease | 0.317 mg/L (OECD 201; Pseudokirchneriella subcapitata; 3 d) | 0.042 mg/L (OECD 210; Pimephales promelas; 32 d) | 0.324 mg/L (OECD 211; Daphnia magna; 21 d) | - | - |
| Titanium Dioxide | > 100 mg/L (OECD | - | > 2.92 mg/L (OECD | - | >14989 (Guideline: |

| | | | | | |
|---|---|---|---|---|---|
| | 201; Pseudokirchneriella subcapitata; 3 d) | | 211; Daphnia magna; 21 d) | | OSPARCOM; Corophium volutator; semi-static; natural sediment; 10 d) |

## 12.2. Persistence and degradability

**Persistence and degradability**

| Chemical name | Ready Biodegradation Test (OECD 301) | Abiotic Degradation Hydrolysis | Abiotic Degradation Photolysis | Biodegradation Other Tests |
|---|---|---|---|---|
| Tetrasodium Etidronate | 22.87% BOD5*100/COD; ISO 5815; 5 d | - | - | 6.7 % (Read across data on Etidronic acid; guideline not indicated; Iowa Farm Soil; CO2 evolution; 119 d) |
| TAED | 99% CO2; OECD 301 B; > 60% (10 d) | - | - | 75.1% (OECD 301 B; aerobic; activated sludge, domestic, non-adapted; CO2 evolution; 27 d; meets the 10 d window criteria) |
| Protease | 102% CO2 OECD 301 B; 29 d | - | - | - |

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Tetrasodium Etidronate | -3 |
| Protease | -3.1 |

| Chemical name | Octanol/water partition coefficient | Bioconcentration factor (BCF) |
|---|---|---|
| Tetrasodium Etidronate | -3 (OECD 107) | 71 |
| TAED | -0.09 | - |
| Protease | ≤ -3.1 (OECD 107) | - |
| zinc hydroxy carbonate | - | 60960 |

## 12.4. Mobility in soil

**Mobility in soil** No information available.

| Chemical name | log Koc |
|---|---|
| Tetrasodium Etidronate | 16610 L/kg |

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

| Chemical name | PBT and vPvB assessment |
|---|---|
| Sodium Carbonate | The substance is not PBT / vPvB PBT assessment does not apply |
| Sodium Carbonate Peroxide | The substance is not PBT / vPvB PBT assessment does not apply |
| Trideceth-n | The substance is not PBT / vPvB |
| Tetrasodium Etidronate | The substance is not PBT / vPvB |
| Disodium Disilicate | PBT assessment does not apply |
| Protease | The substance is not PBT / vPvB |
| zinc hydroxy carbonate | The substance is not PBT / vPvB PBT assessment does not apply |

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

## 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

| | |
|---|---|
| **Waste from residues/unused products** | The waste codes/waste designations below are in accordance with EWC. Waste must be delivered to an approved waste disposal company. Waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. Where possible recycling is preferred to disposal or incineration. Empty, uncleaned packaging need the same disposal considerations as filled packaging. For handling waste, see measures described in section 8. Dispose of in accordance with local regulations. |
| **Contaminated packaging** | Do not reuse empty containers. |
| **Waste codes / waste designations according to EWC / AVV** | 20 01 29* - detergents containing dangerous substances<br>15 01 10* - packaging containing residues of or contaminated by dangerous substances |

## SECTION 14: Transport information

**IATA**

| | |
|---|---|
| **14.1 UN number or ID number** | Not regulated |
| **14.2** | |
| **14.3 Transport hazard class(es)** | Not regulated |
| **14.4 Packing group** | Not regulated |
| **14.5 Environmental hazards** | Not applicable |
| **14.6 Special precautions for user** | |

**IMDG**

| | |
|---|---|
| **14.1 UN number or ID number** | Not regulated |
| **14.2** | |
| **14.3 Transport hazard class(es)** | Not regulated |
| **14.4 Packing group** | Not regulated |
| **14.5 Environmental hazards** | Not applicable |
| **14.6 Special precautions for user** | |
| **14.7 Maritime transport in bulk according to IMO instruments** | No information available |

**RID**

| | |
|---|---|
| **14.1 UN number or ID number** | Not regulated |
| **14.2** | |
| **14.3 Transport hazard class(es)** | Not regulated |
| **14.4 Packing group** | Not regulated |
| **14.5 Environmental hazards** | Not applicable |
| **14.6 Special precautions for user** | |
| **Special Provisions** | None |

**ADR**

| | |
|---|---|
| **14.1 UN number or ID number** | Not regulated |
| **14.2** | |
| **14.3 Transport hazard class(es)** | Not regulated |
| **14.4 Packing group** | Not regulated |
| **14.5 Environmental hazards** | Not applicable |
| **14.6 Special precautions for user** | |
| **Special Provisions** | None |

**ADN**

| | |
|---|---|
| **14.1 UN number or ID number** | Not relevant |
| **14.2** | |
| **14.3 Transport hazard class(es)** | No information available |
| **14.4 Packing group** | Not relevant |
| **14.5 Marine pollutant** | Not regulated |

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

**Germany**

**Water hazard class (WGK)** obviously hazardous to water (WGK 2)

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)
Regulation (EC) No. 648/2004 (Detergents regulation) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorization per REACH Annex XIV |
|---|---|---|
| Sodium Carbonate | 75. | - |
| Protease | 75. | - |

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**Plant protection products directive (91/414/EEC)**

**EU - Biocides**

**CESIO Recommendations** The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer

**15.2. Chemical safety assessment**

**Chemical Safety Report** No chemical safety assessment has been carried out for this mixture per REACH regulation

## SECTION 16: Other information

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

H272 - May intensify fire; oxidizer
H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

**Legend**
SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |

| Classification procedure | |
|---|---|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Serious eye damage/eye irritation | Calculation method |

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**Further information** Salts listed in Section 3 without a REACh Registration number are exempt, based on Annex V

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**
**Disclaimer**
**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**